

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings in the application:

1. (Currently Amended) A method of preparing for an injection procedure, the method comprising:

~~preprogramming or manually programming~~ providing data of a predetermined fluid volume of a fluid path comprising a syringe and tubing in fluid connection with the syringe into a to an injector comprising a piston, the syringe comprising a distal end and a plunger;

~~mounting the fluid path a syringe comprising a distal end and the plunger on an the injector comprising a piston;~~

sensing from an encoding device that the syringe is mounted on the injector and is an empty syringe;

in response to sensing the syringe, automatically initiating advancing of the piston of the injector to engage the plunger of the syringe and ~~to advance~~ advancing of the plunger to the distal end thereof to expel air from the ~~syringe~~ fluid path;

retracting the piston based on the ~~predetermined~~ fluid volume to retract the plunger and aspirate fluid into the ~~syringe~~ fluid path; and

automatically initiating advancing, without operator input, of the piston to prime the fluid path ~~syringe and a tube connected to the syringe.~~

2.-4. (Canceled)

5. (Currently amended) The method of claim 1, further comprising ~~the step of~~ advancing the piston to expel fluid from the ~~syringe~~ fluid path.

6. (Currently amended) The method of claim 1, further comprising ~~the step of~~ retracting the piston after the syringe is removed from the injector.

7. (Canceled)

8. (Currently Amended) A method of preparing for an injection procedure, the method comprising:

~~preprogramming or manually programming~~ providing data of a predetermined fluid volume ~~into a~~ to an injector, the injector comprising a piston;

mounting a syringe comprising a distal end and a plunger on ~~an~~ the injector ~~comprising a piston~~;

sensing that the syringe is mounted on the injector;

automatically ~~determining based on the~~ sensing whether the syringe is an empty syringe, a preloaded syringe or a prefilled syringe;

in response to sensing the syringe, automatically ~~[[,]]~~ initiating advancing of the piston of the injector to engage the plunger of the syringe;

automatically initiating advancing of the piston of the injector to advance the plunger to the distal end of the syringe if the syringe is an empty syringe;

automatically initiating retracting of the piston a determined distance based on the predetermined fluid volume to retract the plunger and aspirate fluid into the syringe if the syringe is an empty syringe; wherein the automatically advancing and retracting of the piston is without operator input; and

advancing the piston to prime ~~the~~ a fluid path for the injection procedure.

9. -10 (Canceled)

11. (Currently Amended) A method of preparing for an injection procedure, the method comprising:

~~preprogramming or manually programming~~ providing data of a predetermined fluid volume ~~into a~~ to an injector comprising a piston;

mounting a syringe comprising a distal end and a plunger on ~~an~~ the injector ~~comprising a piston~~;

advancing the piston of the injector to engage the plunger of the syringe and to advance the plunger to the distal end thereof;

retracting the piston a determined distance based on the predetermined fluid

volume to retract the plunger and aspirate fluid into the syringe; and

automatically initiating advancing, without operator input, of the piston a distance determined by the injector to prime the syringe and a tube connected to the syringe, wherein the distance the piston is advanced for priming is based on a fluid volume of the tube.

12. – 14. (Canceled).

15. (Currently amended) The method of Claim 11, further including advancing the piston ~~during the step of retracting the piston to retract the plunger and aspirate~~ during aspirating fluid into the syringe, wherein the advancing decreases the amount of air aspirated into the syringe.

16. (Currently amended) The method of Claim 1, further including advancing the piston ~~during the step of retracting the piston to retract the plunger and aspirate~~ during aspirating fluid into the syringe, wherein the advancing decreases the amount of air aspirated into the syringe.

17. (Currently amended) The method of Claim 8, further including advancing the piston ~~during the step of retracting the piston to retract the plunger and aspirate~~ during aspirating fluid into the syringe, wherein the advancing decreases the amount of air aspirated into the syringe.

18. (Currently amended) The method of Claim 1, wherein the data of the fluid volume is provided to the injector ~~preprogramming is completed~~ after mounting a the syringe.

19. (Currently amended) The method of Claim 8, wherein the data of the predetermined fluid volume is provided to the injector ~~preprogramming is completed~~ after mounting a the syringe.

20. (Currently amended) The method of Claim 11, wherein the data of the predetermined fluid volume is provided to the injector ~~preprogramming is completed~~ after mounting a the syringe.